Name:

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Wed, 25 Mar 2015

**Geometry**

**Homework**



**Failure to show all work (mark up all diagrams and write out needed formulas) and/or write in complete sentences will result in LaSalle.**

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| 1. Find the area of the parallelogram.     9.2 m | | 1. 2) The lengths of the diagonals of a rhombus are 10 and 24 meters. A) Find the perimeter of the rhombus. B) Find the area of the rhombus. | |
| 1. The perimeter of a rhombus is 60 feet and one of its diagonal has a length of 20 feet. Find the area of the rhombus. Round each step to the nearest tenth. | | 1. Find the measures of angles B, C and D. | |
| 1. Find the measurements of angle B, C, and D. | |  | |
|  | | 1. Find the area of the parallelogram below. | |
| 1. Find the indicated measures in *□*ABCD below using your knowledge of parallel lines & parallelograms. Mark all congruent angles in the diagram. Then write the angle measures to the right.   *Remember, angles are named with the vertex in the middle, so this could be called ∠ABE, ∠ABD, ∠DBA or ∠EBA.* | 1. *m*∠*AEB* 2. *m*∠*BAE* 3. *m*∠*AED* 4. *m*∠*ECB* 5. *m*∠*BAD* 6. *m*∠*DCE* 7. *m*∠*ADC* 8. *m*∠*DCB* | |
| 1. In a circle with diameter 15 inches, shown below, how many inches in length is an arc that has a central angle of 120 degrees? (Hint: you’ll need to find the entire circumference, then you can use a ratio of to find the arc, or portion of the circumference.) | | 1. The hypoteneuse of the right triangle ABC shown below is 22 feet long. The cosine of angle A is 4/5. About how many feet long is segment AC?     22 | |
| 1. A painter leans a 25 foot ladder against a house. The side of the house is perpendicular to the level ground, and the base of the ladder is 10 feet away from the base of the house. To the nearest foot, how far up the house will the ladder reach? | | 1. Jessica wants to draw a circle graph showing the favorite teachers at her school. Her classmates chose the following in a poll: 32% said Mr. T-G, 35% said Mr. B, and 33% said Ms. Mitrovich. What will be the degree measure of Mr. B’s sector (or section) of the circl graph? (Hint: remember how many degrees are in a circle! This problem isn’t as hard as it sounds. ☺) | |